

## ABSTRACT

### Method Of Interpolation

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A method of determining a value for a function which is particularly useful for mapping values from one colour space to another comprises a series of steps, as follows. The method is applicable to n-dimensional spaces, but is particularly described for three dimensions. The first step is to establish a three dimensional  
10 lattice, the function having values at the lattice points. The next step is to record values of the function for a subset of the lattice points, the lattice points of the subset being known value lattice points. These known value lattice points form a sparse lattice (preferably the sparse lattice points are regularly spaced along orthogonal axes). A value of the function for a given lattice point is established by returning a  
15 weighted average of the values of one or more of four known value lattice points defining a tetrahedron 42 touching or enclosing the given lattice point. Each of the lattice points which are intermediate points in a coarse lattice cube 41 is either within, or on the boundary of, at least one tetrahedron 42 whose vertices are four of the vertices of the cube.